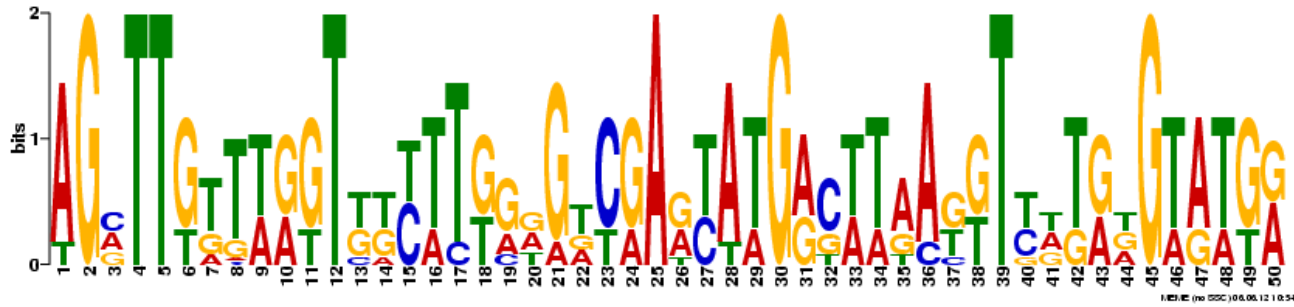


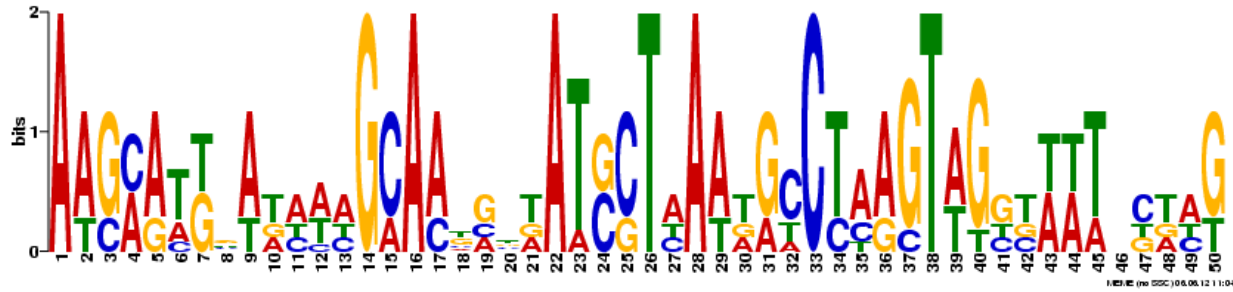
Figure S1: Motifs identified by Meme Analysis

Motif 1:



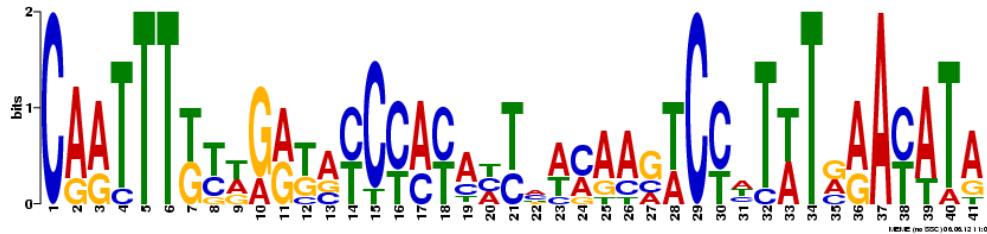
Name	Strand	Start	p-value	Sites ?
bp2N	+	249	2.79e-22	AGCAAGAAGA AGCTTGGTTAGTGTGGAGTCGAATATGACTTGATGTCATGTGTATGA TTGAGTATAA
bp2N	+	81	4.79e-21	AGCTAGAAGA AGCTTGGNTAGTGTGGAGTCGAATATGACTTGATGTCATGTGTATGA TTGAGTATAA
bp11N	+	288	2.05e-19	AGATTAAGGC AGGTTGTTAGGTTGCATTGTGACGAGTATGGCTAAAGTTTTTAAGTAAGG GTCTATCATC
bp2N	+	426	2.27e-19	AGCAAGAAGA AGCTTGATTAGTGTGGAGTTGAATATGACTTTATGTCATGTGTATGA TTGAGTATAA
bp5N	-	309	2.80e-19	AGATTAAGGC AGGTTGTTAGGTTGCATTGTGACGAGTATGGCTAACGGTTTTAAGTAAGG GTCTATCACT
bp11N	+	446	1.90e-17	CTTCAACTTA AGATTTTTTGTGGCTTGAGGGCAAGCAAGAGATAAGTTTGGGGGAGTTG ATAACACAGT
bp5N	-	151	8.00e-16	TTTCAACTTA AGATTTTTTGTGACTCGAGGGCAATCAAGAGATAAGTTTGGGGGAGTTG ATAACACTGT
bp5N	-	1012	2.54e-15	CATTTGTGTG TGATTGTGAGGCTTTTTTCGATTGAGCTTGGTATAACGTGTTAGGTATGA GCCGACAAGA

Motif 2:



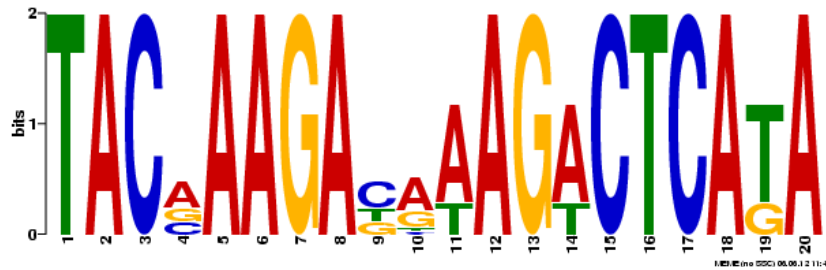
Name	Strand	Start	p-value	Sites
bp2N	+	484	2.34e-18	GATTGAGTAT AAGAA TTTAAATCGCAATCTTATCCTAAAAGCCTAAGTAGTGTTCCTTG TTAGAATATA
bp11N	-	355	5.51e-18	TCAAAAACCG AAGCATGCATATAGAACGGGTATGCTCAATGTCCTGGTAGCTAATTCTAG GTTGCAAGAT
bp5N	+	242	7.39e-17	TCAAAAATCG AAGCATGCATATAGAACAGGTAAGCTCAATGTCCAGGTAGCTAATTCTAG GTTGCAAAGT
bp2N	+	139	1.31e-16	GATTGAGTAT AAGAACTTAAACCGCAACCATATCCTAAAAGCCTAAGTAGTGTTCCTTG TTAGAATATA
bp11N	-	180	2.67e-16	ATTAAGCACG AACAGTGGATCAAGCAATGCAATGGTTATGACCTCAGTTGGTTTTGGCT TAGGCTAAGA
bp11N	-	589	1.05e-15	ACACCAAAAG ATGCAATATGTATGCAAGATGATCCTAAATGCCTAAGTTGGCAAAATAAG CTAAATGTGA
bp5N	+	9	1.42e-15	CACCAAAAA ATGCAATGTGTATGCAAGATGATCCTAAATGCCTAAGTATGCAAAATAAG CTAAATGGT
bp5N	+	380	8.68e-15	TTTAAGCACG AACAGTGGATCAAGCAATGCAATGGTTATGAACTCACTTGGTTTTGGCT TAGGCTAAGA

Motif 3:



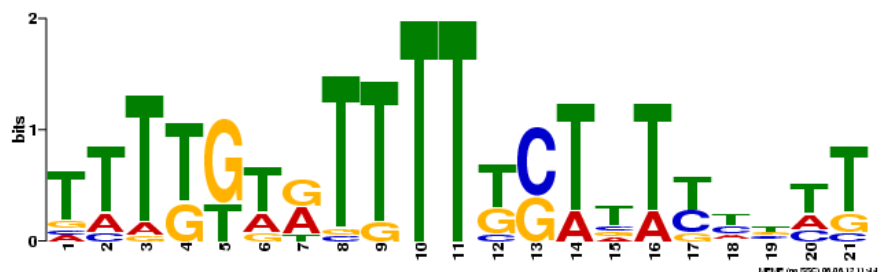
Name	Strand	Start	p-value	Sites ?
bp1N	+	81	3.95e-16	AAATAACAAA CAATTTTTTGGTGTCCATAAATAACAAGTCCWTTTAAATATA TCCATTTCGGA
bp1N	+	280	6.85e-16	AATCATCAAA CAATTTTTTGGCATCCATAAATAACAAGTCCATTTAAATATA TCCATTTCAGA
bp1N	-	223	1.69e-15	GATTTTCTTT CAGCTTGCAGAGACCTCCACCXTCAAGACCTTATGGACATG GAACTCTGGT
bp1N	+	481	2.74e-15	AATCAACAAA CAATTTGTTGGTGTCCATAAATAACAAGTCCATTTAAATATA TCAATTTCGGA
bp1N	-	422	4.82e-14	TTTTTTTTTTT CAATTTGCAGAGACTTCCACCCTCAAAAACCTATGGATATG GAACTTTGGT
bp1N	-	23	1.20e-13	TTTTTTTTTTA CAGTTTGCAGAGACCTCCXCCTCGGAGACTTTATGGACATA GAAATTATAC
bp5N	-	201	1.30e-13	ATGCATGCTT CGATTTTTGAATCCCCACCTTCAAACCTCTCTTTCAACTTA AGATTTTTTG
bp11N	+	405	4.66e-13	ATGCATGCTT CGGTTTTTGAATCCCCACCTTCAAACCTCTCCTTCAACTTA AGATTTTTTG
bp1S	-	233	4.11e-12	CTTCTATTTT CAATTTTGTGGTATCCATTTTGTATTGTCCATATGAACAAT GTACTTTTGC

Motif 4:



Name	Strand	Start	p-value	Sites ?
bp2N	+	542	1.10e-11	TGTTAGAATA TACGAAGACAAAGACTCATA TGGACTTCGG
bp2N	+	18	3.42e-11	GTTAGAAGGC TACAAAGACNAAGACTCATA TGGACCNTTG
bp2N	+	364	7.62e-11	CGTTAGAAGA TACAAAGATAAAGACTCATA TGGACTTCGG
bp2S	+	1076	3.89e-10	GAGGGAATCA TACCAAGAGGTAGTCTCAGA CCAGCATTAT

Motif 5:



Name	Strand	Start	p-value	Sites
bp1S	-	71	1.44e-08	AATTTAATAA TTTTGGGTTTTCCTTATCCTT ATAAATCATA
bp1S	-	187	3.26e-08	TGGTGACCAT TTTTGTATGTTGGTTTCTCT TTTGTACCCA
bp1N	-	877	1.03e-07	ATTTTGATGG TATGGAATTTTTCTTTCACCTT AGGGGATTGG
bp1S	+	1294	1.53e-07	AATCAAATA TTTTGTATTTTTCAATTTGTT AGAGATAAAA
bp11S	+	1666	1.74e-07	TTGTGCTCTG TTTTGTGGTTTTGTTCATTT TTAGCTTAAT
bp3N	-	609	3.97e-07	TTCCATCTTT GCTTGTGTTTTGCTTTTCTCC AGCCTAGATA
bp3N	-	249	3.97e-07	ACCTTGTCGC TTTTGTGGTTTTTCATTCACCTT GGGCCTTAAA
bp5N	-	1712	8.31e-07	ATACCATTGG CTTTTTATTTTTCTTTGTGTG TTTTGTGTTT
bp3S	+	87	8.31e-07	CAATAGAAA TTTTGTAGTTTTGGATACCCG GGTTTACCCG
bp5N	+	1558	1.01e-06	TCAAATTTT TATGGTTTTTTTCTATGCCTT AGATTGATGC
bp5N	-	1691	1.11e-06	TCTTTGTGTG TTTTGTGTTTTGGTCTTGAAT TTTTCCTCAG
bp11S	-	976	1.23e-06	TGATATATGA TATTGTATTTTCTGTTTGAG TATATTTTCC
bp11S	+	1168	2.10e-06	ATATGATTAT TTTGTTGTTTTGTGATATAT ATTGTATTTA
bp5S	+	1345	2.10e-06	TTCTCTTCTT TTATGTACTTTGGTTTTTTGTT ATTCGAAAGA
bp5S	-	1196	2.28e-06	ATATTAAGAA GTTGGGGTTTTCTCATTGAT CACCAAAATG
bp3S	+	1255	2.28e-06	AAATTTCAAT TTGGTAAATTTTTGTTTTTGT TGAATTTACA
bp11N	+	1085	2.70e-06	TAGCTTTTAT CCTTTAGTTTTCTTTGTGTT CTTGAATCTT
bp1S	+	1498	3.17e-06	TCCATCCAAA TATTTTGTTTTTGTCAATCT TAATATGTAA
bp11S	+	1746	3.43e-06	TGCATAGAAG GTATGAATTTTTCTTTTCTAG ATATATAAGG
bp2S	-	365	3.71e-06	TCCGTCGTGG ATTGGTATGTTTCAGTCTCT CTAATATATA
bp1S	-	1351	3.71e-06	TGTTAAAGTA TTTTGTATTTTTCAATTAATG GCATTCGATT
bp5S	-	1239	4.99e-06	ATTCTAAGGG TATGTTTTGTTGGTTTCTAT TTATATCTTT
bp1N	-	638	4.99e-06	TGGCGGCTTG ATTTGATTTTTGCTCTCTCTC ATGTGTCAA